

FOR IMMEDIATE RELEASE

Alligator Designs Introduces Falcon II

Rugged Hybrid Small Form Factor Computer

Bangalore, India, January 23rd, 2017

Alligator Designs Pvt. Ltd. announced the next generation of their rugged Small Form Factor (SFF) computer called the Falcon II. The Falcon II was designed to be readily configurable, expandable, and extensible using modules with standard electrical and connector interfaces and is specifically tailored for the avionic, military and rugged industrial market. The system offers the best utilization of Size, Weight and Power (SWaP) and adherence to Commercial Off the Shelf (COTS) standards in the industry. Though its size is small, the Falcon II is mighty.



“We welcome the Falcon II to our growing portfolio of rugged SFF computers using standard-based connectors”, states Pawan Seth, Director at Alligator Designs. “Our variety of SFF computers include 3U VPX, XMC, COMe, and MiniPCIe based standards and in the second half of 2017, we shall add VNX (VITA-74) rugged COTS computers”.

The versatile Falcon II may be configured with the latest high performance computer and graphics engines, as well as the best SWaP optimized, low power, System on Chip (SoC) processors; and every solution in between. This includes Intel Core i7 and Xeon E3, AMD G-Series System on Chip, Intel Atom Bay Trail and Free scale PowerPC.

The Falcon II can support all I/O typically needed in the targeted applications. This I/O includes MIL-STD-1553B, ARINC-429, AS-5643 MIL Firewire, Video Graphics, Video Frame Capture, Software Defined Radio, RS-232/422/485, Fibre Channel, GigE and 10GigE, Analog and Discrete signals, and FPGA / GPGPU processors. The I/O can be in XMC or MiniPCIe, including the revolutionary “Plug and Play” AcroPack. There are additional options for Inertial Measurement and Navigation, GPS, Wi-Fi, Cellular Modem signals, and multi-drive RAID storage solutions.

“The key advantage of Falcon II is that it was designed intelligently based on Alligator’s Build-in methodology where the focus is on the chassis and midplane thus allowing more flexibility when choosing COTS modules. The Falcon II is not limited to any single COTS vendor” added Seth. The chassis has been created to utilize minimum space while optimized to carefully manage the heat dissipation. To prevent high NRE costs, the system architecture makes maximum use of standards based computer, graphics, I/O modules and connectors. The standardized Midplane design supports a mixture of COTS module types. All the available I/O is passed from the Midplane to the I/O Transition Board’s (IOTB) high density, high frequency circular MIL I/O connectors.

For further information about the Falcon II rugged SFF computer, please visit our web site at: <http://alligatordesigns.com/sff.html> or email: info@alligatordesigns.com.

**Alligator Designs Pvt. Ltd.**

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Alligator Designs is an AS9100C & CEMILAC Certified Company providing world class rugged product and system designs, developed and deployed on land, at sea, and in air for close to 20 years. Alligator has provided systems for customers around the world. Engineered with perfection, Alligator products are intended for use in mission critical applications where they are tested and qualified per the requisite MIL specs and standards. Alligator Design's services include Build-to-Print and Build-to-Spec as well as providing COTS or modified backplanes, power supplies, health monitors, development and industrial chassis, rugged ATR enclosures, storage and rugged NAS, work stations, Ethernet switches, full sub-systems: 6UVME, 6U VPX, 3U VPX, VNX and more.

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